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I, JULIE BILLINGSLEY, TEAM LEADER EXAMINATION SUPPORT AND SALES hereby certify that annexed is a true copy of the Provisional specification in connection with Application No. 2003901401 for a patent by DAVID WILLIAM SMYTH as filed on 27 March 2003.

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WITNESS my hand this  
Seventh day of April 2004

A handwritten signature in cursive script that appears to read "J. Billingsley".

JULIE BILLINGSLEY  
TEAM LEADER EXAMINATION  
SUPPORT AND SALES

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**AUSTRALIA**  
Patents Act 1990

**Provisional Application**

**AEROSOL CAN ADAPTOR & SPRAY  
NOZZLE**

**The Invention is described in the following statement.**

1.

This invention concerns the function of applying rust preventive from an aerosol can, and accessories into an enclosed metal panels or box channels.

The aerosol can adapter with spray nozzle are intended for use by individuals who choose to apply rust inhibitor to inaccessible panels on vehicles, trailers, or any enclosed metal panels without the need to have specialized equipment. (Compressor/spray equipment)

The can adapter and spray nozzle is attached to the can spray nozzle by sliding the retaining ring over the can spray nozzle and inserting the can adapter tube into the can spray nozzle. The can adapter is then secured to the can spray nozzle with the clip down locking tab as shown in Figures 1&2. The aerosol can adapter will not release from the spray can during use, unless or until the locking tab is released.

The can adapter tube us actually a flexible nylon tube (Fig 1&2), which is small enough to access panels through screw hole, drain holes or any access holes. The flexible nylon tube is only 1/8" or 3.2mm in diameter which makes it small enough to be inserted in small holes in car body panels. The flexible nylon tube can also access areas such as window frames, sill panels, classic rails, door pillars, wheel arches and roof gutters. Any enclosed body panel with an access hole.

The nylon tube is flexible and this will allow it to follow curves in vehicle body panels.

The spray nozzle is designed to allow the inhibitor flow to accumulate near the end of the tube and emerge through a small gap between the nylon tube and the spray nozzle as a 360° spray at a right angle to the tube. (Figure 3)

**Method of operation;**

Insert the nylon tube through an access point and feed the nylon tube into the panel as far the tube will reach, or as required.

The simple manoeuver of applying downward force to the aerosol can spray nozzle starts the procedure and the spray nozzle positioned at the end of the flexible nylon tube (Fig 1) will direct the inhibitor liquid in a 360° spray at right angles to the nylon tube. Drawing the flexible nylon tube back will apply a coat of inhibitor to all surfaces of the panel being treated. (Figure 3).

A coloured band around the flexible nylon tube, located 60cm from the spray nozzle end is an indicator to the operator to stop the spray application before the spray nozzle emerges from the panel being treated.

2.

**Construction:**

The can adaptor is intended to be made from a flexible plastic or nylon.  
The spray nozzle is intended to be made from a ridgid plastic.

The spray nozzle is shaped to allow flow past when inserted into the  
nylon tube. When the procedure is activated the inhibitor flow  
accumulates near the end of the tube and emerges through a small gap  
between the nylon tube and the spray nozzle as a 360° spray at a right  
angle to the tube. (Figure 3) The extreme end of the nozzle is rounded  
and domed to allow the tube to be pushed around corners and into  
normally inaccessible panels.

The length of the flexible nylon tube can vary, but for convenience and  
easy operation the length should be 1 metre.

To emphasize the understanding of this invention references will now be  
made to the attached drawings, which show an example of the invention.

**In the drawings:**

Figure 1 shows two examples of the can adapter, in one the clip down  
locking tab is released and in the other, when it is locked. The can adapter  
tube and the retaining ring are highly visible in both frames and these  
drawings show the simplicity and dexterity of this invention.

Figure 2: Shows the can adapter attached to the aerosol spray can and  
with the flexible nylon tube inserted into the spray can nozzle.

Figure 3: Shows an illustration of a demonstration of the working  
invention. The can adapter is connected to the aerosol can and the flexible  
nylon tube. The flexible nylon tube is positioned in a vehicle body panel  
and by applying downward pressure on the can spray nozzle the rust  
inhibitor is sprayed out of the flexible nylon tube nozzle as a 360° spray  
at right angles to the nylon tube.

3.

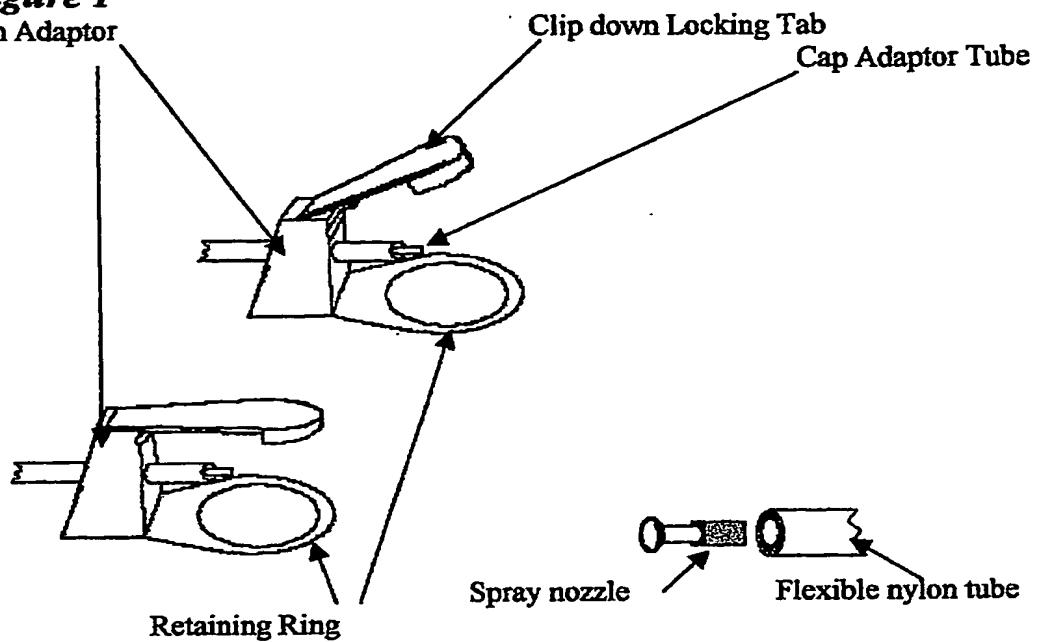
The claims defining the invention are as follows;

1. The aerosol can adapter and spray nozzle is attached to the can spray nozzle by sliding the retaining ring over the can spray nozzle and inserting the can adapter tube into the can spray nozzle.
2. The aerosol can adapter and spray nozzle of claim 1 is then secured to the can spray nozzle with the clip down locking tab as shown in Figures 1&2. The aerosol can adapter will not release from the spray can during use, unless or until the locking tab is released.
3. The spray nozzle is designed to allow the inhibitor flow to accumulate near the end of the tube and emerge through a small gap between the nylon tube and the spray nozzle as a 360° spray at a right angle to the tube. (Figure 3)
4. The spray nozzle of claim 3 is rounded and domed at the end to allow the tube to be pushed around corners and into normally inaccessible panels.
5. The aerosol can adaptor as of claim 1&2 may be constructed of flexible plastic or nylon.
6. The spray nozzle of claim 3&4 may be constructed of ridgid plastic or cast alloy.

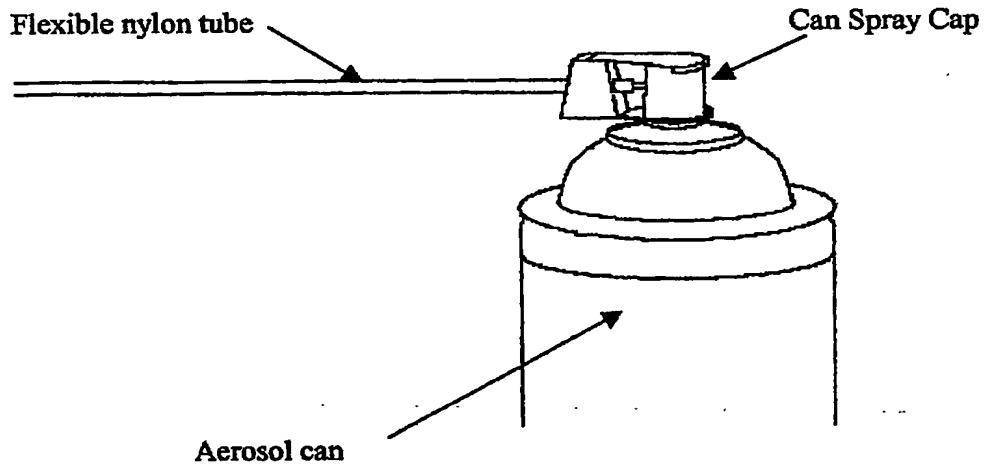
David William Smyth

24 March 2003

**Figure 1**  
Can Adaptor



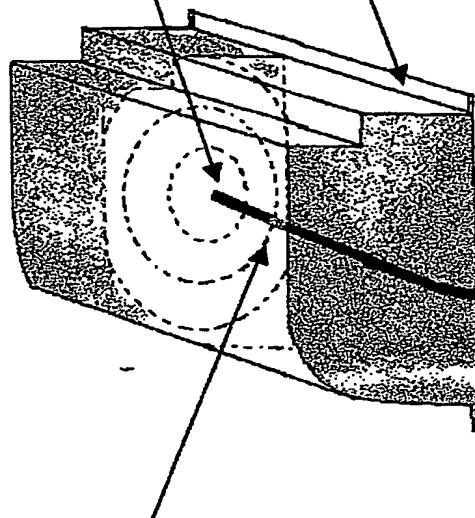
**Figure 2**



**Figure 3**

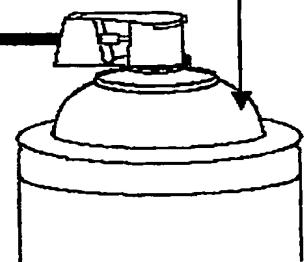
Cut-away Vehicle Body Panel

Spray Nozzle



Can of Corrosion Inhibitor

Can Adaptor



Coloured band. (Stop indicator)

360-degree spray at right angle to tube

Coloured band. (Stop indicator)

Spray Nozzle

Flexible nylon tube  
Downward Force

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